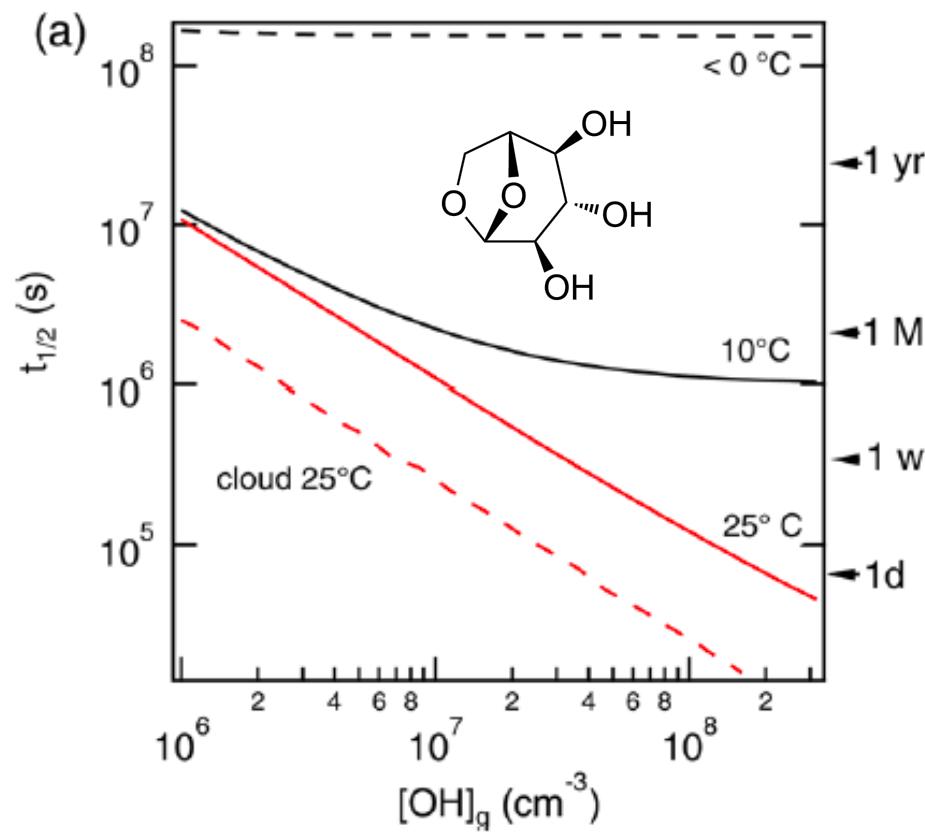
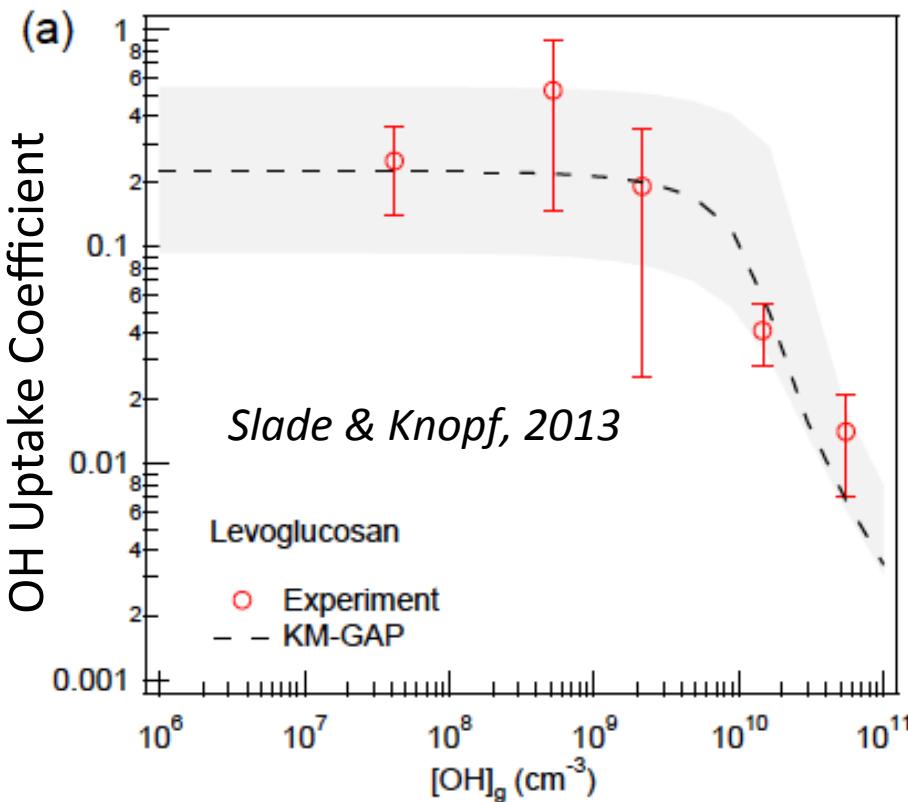


*Manabu Shiraiwa (UC Irvine) Heterogeneous OH oxidation of levoglucosan
in collaboration with D. Knopf (Stony Brook)*



$$D_{\text{OH}} = \sim 10^{-8} \text{ cm}^2 \text{ s}^{-1}; D_{\text{LG}} = \sim 10^{-16} \text{ cm}^2 \text{ s}^{-1}$$

- OH uptake controlled by surface reactions and bulk diffusion of LG
- Chemical half-life of particle-phase LG can exceed a month due to slow bulk diffusion in a glassy matrix at low temperature.